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**QUADX & QUAD 3Km FLASH HEADS
USER GUIDE BWL-0328/2 (03/07)
BOWENS INTERNATIONAL LIMITED**

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OPERATING INSTRUCTIONS

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Unit	QuadX Head	QuadX (E11) Head	Quad 3Km Head
Part Number	BW7660	BW7665	BW7646
Maximum Energy	3000Ws	3000Ws	3000Ws
Flash Colour Temperature	5300K ±300K	5300K ±300K	5300K ±300K
Circuit Protection	230V - 5A (F) (117V - 10A (T))	230V - 5A (F) (117V - 10A (T))	230V - 5A (F) (117V - 10A (T))
Supply Voltage Range 230V (120V)	190-250V AC 50Hz (95-130V AC 60Hz)	190-250V AC 50Hz (95-130V AC 60 Hz)	190-250V AC 50Hz (95-130V AC 60 Hz)
Guide Number (Full power, 50° Keylite, ISO 100)	175	175	186
Flash Tube	BW3019	BW3019	BW7653
Cover Dome	UV - BW2981 Clear - BW2982 Frosted - BW2983	UV - BW2981 Clear - BW2982 Frosted - BW2983	UV - BW7652 Clear - BW7646 Frosted - BW7647
Flash Duration (t=0.5) (Full power)	1/1400	1/1400	1/1400
Modelling Lamp	Max 650W @ 220/240V 300W @ 120V	Max 500W @ 220/240V 300W @ 120V	Max 500W @ 220/240V 300W @ 120V
Recommended Modelling Lamp	240V 300W BW2504 240V 650W BW2503 120V 300W BW7515	240V 500W BW2515 240V 250W BW2510 120V 250W BW2525 120V 100W BW2520	240V 250W BW2510 240V 500W BW2515 120V 250W BW2525 120V 100W BW2520
Cable Length	5m	5m	5m
Weight	3.2Kg	3.2Kg	2.4Kg
Dimensions (l x w x h)	250 x 133 x 155mm	250 x 133 x 155mm	225 x 110 x 110mm

Due to our policy of constant product improvement, Bowens International Ltd reserves the right to change equipment specifications at any time and without notice.

High-Performance Reflector



This 32cm reflector achieves the maximum amount of light output possible for lighting large groups and bouncing light off of high ceilings. The efficient parabolic design delivers a narrow, bright beam of light with intense shadows and high contrast. A must where sheer power is required. **BW1878**

Backlite Reflector



With its 20 x 30.5cm (8 x 12") elliptical shape, this reflector produces an oval pool of light that can be used to create a natural vignette on a background or other areas. Two fitted spring clips allow colour gels to be fitted. **BW2560**

A set of colour gels including seven popular colours, a neutral-density filter and two diffusers for heightened lighting creativity is also available for the Backlite reflector. **BW2552**

40° Sunlite Reflector



A 43cm (17") white-painted reflector designed to replicate sunlight for photographing items such as architectural models. The white painted interior of the Sunlite helps to ensure that an even light is delivered. **BW1868**

DID YOU KNOW? that Bowens have over **40** light shaping tools and accessories available for all their monolights that use the current 'S' type accessory fitting. Included among the range of accessories are a wide variety of reflectors and softboxes. For more information visit the website on **www.bowens.co.uk**

Dear Valued Customer,

Thank you for choosing the Bowens Quad head professional flash system.

Accurate, ergonomic, powerful and simple to use, the Quad heads have been designed by working closely with photographers to develop a flash that meets the standards demanded in professional studios today. All 'S-Type' accessories from the Bowens range can be used with the Quad heads. For details of all related products, please contact your local distributor, a list of which can be found at **www.bowens.co.uk**. In order to obtain the full benefit from your purchase, please take a few moments to familiarise yourself with this user manual.

Thank you.
Bowens International Ltd.

Safety Notes

DO NOT:

- Use in an environment where moisture or flammable vapour is likely to come in contact with the unit.
- Restrict air vents while in use.
- Use a unit with damaged housing, mouldings, flash tube or modelling lamp.
If the unit is dropped or damaged in any way, always have it checked out before using.
- Operate the unit without a safe grounded (earthed) AC supply.

DO:

- Read Instructions before use
- Switch power off and disconnect from the supply before changing modelling bulb or flash tube.
- Disconnect the supply before changing the fuse. Never replace with a fuse of a different rating.
- Exercise care when handling equipment that has been in use. The reflector and front end of the unit can become very hot.
- Avoid placing cables where they can be tripped over. Protect from heavy, sharp or hot objects, which may cause damage and replace damaged cables immediately.
- Due to the high voltage / high energy used in all Bowens units, all servicing must be carried out by an authorised Service Centre.
- Ensure that any extension cord used has a suitable current rating to prevent overheating and never use coiled extension cords.
- ALWAYS remove the flash head covers before using.

!!! WARNING HIGH VOLTAGE !!!

**THIS APPLIANCE MUST BE EARTHED WHEN USED.
ALWAYS DISCONNECT THE UNIT WHEN CHANGING
MODELLING LAMPS & FLASH TUBES.**

Select a stand or support system of suitable weight and dimensions to ensure stable operation of the unit. Ensure that the clamp screw is fully tightened. The angle of the head may be set using the locking handle, always support the flash head before releasing the handle and never force adjustment without releasing the handle.

Move the latch release back towards the rear of the unit, rotate and remove the plastic protective cap. Always refit the cap when transporting the unit to avoid damage. NEVER operate the unit with the cap still in place.

Before connecting the flash head to the pack confirm that the lamp, flash tube and cover glass are securely fitted; particularly before first use or after transporting the unit. Refer to the section on replacement if required. Never operate without the cover glass fitted.

The modelling lamp is controlled from the generator pack and will respond to all of the pack controls including the dimmer option. The switch on the rear allows the modelling lamp of individual heads to be turned off.

Modelling Lamp Replacement

Before attempting to replace the modelling lamp, switch off the pack and disconnect the flash head cable. This is particularly important if the lamp glass is broken. Wait a few minutes for the lamp and tube to cool.

Remove the glass dome by depressing both retaining buttons (for the QuadX head, or simply gently slide the glass dome over the flash tube and modelling lamp for the Quad 3Km head) and carefully lifting it off. Remove the lamp from the QuadX head by gently pulling it from its socket, for the Quad 3Km gently unscrew the lamp from its fitting. Take care if the lamp envelope is broken - use a cloth or gloves.

Natural grease and oils from the hands can dramatically shorten the working life of a lamp so avoid directly touching the glass envelope of the new lamp. Use the original packing or a clean cloth to grip the lamp. Accidental contamination may be removed with a clean cloth and a small quantity of methylated spirits.

Replacement is the reverse of removal but ensure that the lamp is fully inserted into the socket. If the new lamp fails to light then check the lamp circuit breaker on the pack and the lamp fuse on the flash head, as this may rupture when a lamp fails. Replace a blown fuse with one of the correct type and rating, a spare 4A (F) fuse is included with every Quad flash heads.

Modelling Lamp Replacement

Avoid moving or knocking the unit when the lamp is switched on or when it has just been turned off since the lamp filaments can be damaged when hot.

NOTE: Select and fit a modelling lamp suitable for the mains power supply voltage connected to the generator. Only use lamps as recommended in the specification.

Flash Tube Replacement

Before attempting to replace the flash tube, switch off the pack and disconnect the flash head cable. Follow the instructions for removing the cover dome.

Unwind the twisted trigger wire from the terminal and carefully pull the flash tube assembly out of the unit.

Avoid directly touching the glass envelope of the new tube by using the original packaging or a clean cloth to grip the tube.

Gently locate the three brass sockets into the plugs in the front of the unit. Press down evenly until all of the plugs and sockets are fully engaged. Pass the trigger wire through the hole in the trigger terminal tag and wind around the tag, ensuring the trigger wire is kept well clear of the metal top hat. Trim off excess wire and refit the cover glass.

Connection

To connect the flash head, first ensure the pack is switched off and disconnected from the mains supply. Insert the tab on the front of the cable plug into the socket first and then press down firmly on the cable entry end to ensure latched retention. To remove the plug, press the spring latch away from the plug and lift from the cable entry end.

Reflector / Accessory System

A range of reflectors and accessories are available for the flash head. Slide the neck of the reflector / accessory over the front of the unit. Align the three pegs with the three slots in the retaining ring, press down and turn clockwise to lock. Ensure that the latch release is in the closed position.

To remove any reflector / accessory, push the latch release towards the rear of the unit, turn the reflector fully counter clockwise and withdraw.